GEI Consultants

**MassDEP RTN 3-23246**

# Release Abatement Measure Status Report No. 1

121 Washington Street portion of 50 Tufts Street,
Somerville, Massachusetts

**Submitted to:**
Massachusetts Department of Environmental Protection
Northeast Regional Office
150 Presidential Way
Woburn, MA 01801

**Submitted by:**
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801
781-721-4000

July 12, 2024
Project No. 045163

Christopher O. Coner, CHMM
Project Manger

Ileen S. Gladstone, P.E., LSP
Senior Vice President

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MEF/COC/ISG:bdp
B:\Private\04516\15.0 Report Original\15.149 121 Washington Street RAM SR\121 Washington St RAM SR1_Final_2024-07-12.docx

# Executive Summary

GEI Consultants, Inc. prepared this Release Abatement Measure (RAM) Plan for Wooden Teeth, LLC (Wooden Teeth) of Somerville, Massachusetts for response actions associated with the construction of a mixed-use building at 121 Washington Street (sometimes referred to as 121-123-125 Washington Street) in Somerville, Massachusetts (the Property; Figure 1). The Property is located within a Massachusetts Department of Environmental Protection (MassDEP) listed disposal site identified as 50 Tufts Street and assigned Release Tracking Number (RTN) 3-23246 (the Site). This report covers work between February 29, 2024 and June 28, 2024.

The Property is currently under construction for a new mixed-use building but was formerly occupied by a small commercial building which was demolished in October 2020. The Property is within the Site boundary associated with a historical release of chlorinated Volatile Organic Compounds (VOCs) to soil and groundwater at 50 Tufts Street, located approximately 160 feet northwest of the Property. From approximately 1955 to approximately 2002, 50 Tufts Street was used for storage and distribution of industrial chemicals, laundry supplies, and dry-cleaning supplies. Chemicals stored at and delivered to and from 50 Tufts Street included chlorinated solvents. These chlorinated VOCs - particularly tetrachloroethylene (PCE), trichloroethylene (TCE), and 1,1,1-trichloroethane (TCA) - have been detected in soil, soil vapor, indoor air, and groundwater at 50 Tufts Street.

Property redevelopment includes construction of a mixed-use building with retail space on the ground floor and apartments above. Construction began in spring 2022. According to Wooden Teeth, groundwater dewatering was not necessary. The RAM includes the installation of a vapor barrier and sub-slab vapor mitigation system.

The RAM began in February 2024 and is expected to be completed in the fall of 2024 when the building is complete and confirmatory sub-slab soil vapor and indoor air samples are collected.

# 1. Introduction

GEI Consultants, Inc. prepared this Release Abatement Measure (RAM) Status Report No. 1 on behalf of Wooden Teeth, LLC (Wooden Teeth) of Somerville, Massachusetts for response actions associated the construction of a multi-family apartment building at 121 Washington Street in Somerville, Massachusetts (the Property; Figure 1). The Property is located within a Massachusetts Department of Environmental Protection (MassDEP) listed disposal site identified as 50 Tufts Street and assigned Release Tracking Number (RTN) 3-23246 (the Site; Figure 2). This report covers work between February 29, 2024 and June 28, 2024.

## 1.1. Purpose

The purpose of this RAM Status Report No. 1 is to comply with the requirements of the Massachusetts Contingency Plan (MCP, 310 CMR 40.0445).

## 1.2. Submittals

The MassDEP RAM Transmittal Form (BWSC106) is being submitted electronically via eDEP, a copy is in Appendix A.

## 1.3. Background

The Property is located within a commercial/residential zoning district and fronts residential property to the north and east, Washington Street to the south, and Knowlton Street to the west. The Property is being redeveloped with commercial space on the first floor, and multi-family apartments above. A commercial building was demolished in October 2020.

The Property is within the Site boundary associated with a historical release of chlorinated Volatile Organic Compounds (VOCs) to soil and groundwater at 50 Tufts Street, located approximately 160 feet northwest of the Property. From approximately 1955 to approximately 2002, 50 Tufts Street was used for storage and distribution of industrial chemicals, laundry supplies, and dry-cleaning supplies. Chemicals stored at and delivered to and from 50 Tufts Street included chlorinated solvents. These chlorinated VOCs - particularly tetrachloroethylene (PCE), trichloroethylene (TCE), and 1,1,1-trichloroethane (TCA) - have been detected in soil, soil vapor, indoor air, and groundwater at 50 Tufts Street.

Based on the results of assessments conducted to date, the Site includes the 50 Tufts Street property, together with portions of properties in the neighborhood to the east and west. Based on multiple rounds of groundwater measurements, the general direction of groundwater flow at the Site is to the northeast across Tufts Street toward Knowlton and Franklin Streets.

## 1.4. Project Description

Site redevelopment is on-going and included the demolition of a previous one-story commercial building and re-development into a mixed-use development. According to the design drawings submitted to the City of Somerville September 21, 2020, the redevelopment consists of ground floor retail space, residential units on the second and third floors, and a roof deck. The soil excavation and building construction were performed by contractors of Wooden Teeth, the current property owner. The total area of disturbance is approximately 4,700 square feet ($ft^2$). According to Wooden Teeth no excess soil was generated during construction activities; additionally, no groundwater dewatering was necessary during excavation for the building foundation and elevator pit.

## 1.5. Contact Information (310 CMR 40.0444[1][a])

| **Responsibility for the RAM** | **Licensed Site Professional (LSP) for the RAM** |
|---|---|
| Keith Glover | Ileen Gladstone, P.G., LSP, LEED AP |
| Director of Real Estate | GEI Consultants, Inc. |
| Wooden Teeth, LLC | 400 Unicorn Park Drive |
| 17 Village Street, Unit 1 | Woburn, MA 01801 |
| Somerville, MA 02143 | 781.424.9924 |
| 617-413-5525 | LSP License No. 9719 |

# 2. RAM Status Report No. 1

## 2.1. Status of Response Operations (310 CMR 40.0445[2][a]

During this reporting period components of the sub-slab vapor mitigation system were installed.

## 2.2. New Site Information (310 CMR 40.0445[2][b])

On February 29, 2024, GEI observed the installation in connection with construction of the sub-slab vapor mitigation system of perforated 4-inch pipe. The perforated 4-inch pipe was installed embedded in a layer of crushed stone. GEI returned on March 22 and 25, 2024, to observe additional areas where the perforated 4-inch pipe was installed. Installation of the 4-inch pipe was a deviation from installation of low-profile vent strips as specified in the original design, which will not impact system performance. This deviation was approved by GEI. The vent piping was installed by the developer's plumbing contractor.

A portion of the vapor barrier (Stego® Drago® Wrap) was installed between April 8 and 18, 2024 by Wooden Teeth's building contractor. The area where the vapor barrier was installed is shown on Figure 3, but other areas of the vapor barrier were not placed pending commercial tenancy considerations. The vapor barrier was placed over the crushed stone and sealed with double-sided tape and Stegomastic, consistent with manufacturer's installation instructions.

A-Zoulias returned the next day to conduct a smoke test of the newly installed vapor barrier. Where smoke penetrated the vapor barrier, A-Zoulias made repairs using double-sided tape and Stegomastic.

The photo log in Appendix B includes photos depicting the installation of the piping for the vapor mitigation system and installation of the vapor barrier.

## 2.3. Remediation Waste (310 CMR 40.0445[2][c])

No remediation waste associated with RTN 3-23246 will be managed as part of this RAM.

## 2.4. Other Information Required by MassDEP (310 CMR 40.0445[2][d])

No additional information has been requested by MassDEP.

## 2.5. LSP Opinion (310 CMR 40.0445[2][e])

The actions described in this status report have been performed in accordance with the RAM Plan.

# 3. Limitations

This RAM Plan was prepared for the use of Wooden Teeth and UniFirst. The conclusions presented in this report are based solely on the information contained or referenced in this report. Additional quantitative information regarding the Site that was not available to us may result in a modification of the findings above. The report has been prepared in accordance with generally accepted hydrogeological practices. No warranty, express or implied, is made.

# 4. References

MassDEP (2024). The Massachusetts Contingency Plan (MCP), 310 CMR 40.0000. March 1, 2024.

GEI (2024). Phase V Status Report No. 25 and Remedial Monitoring Report No. 40, 50 Tufts Street, Somerville, MA, RTN 3-23246, dated February 2, 2023.

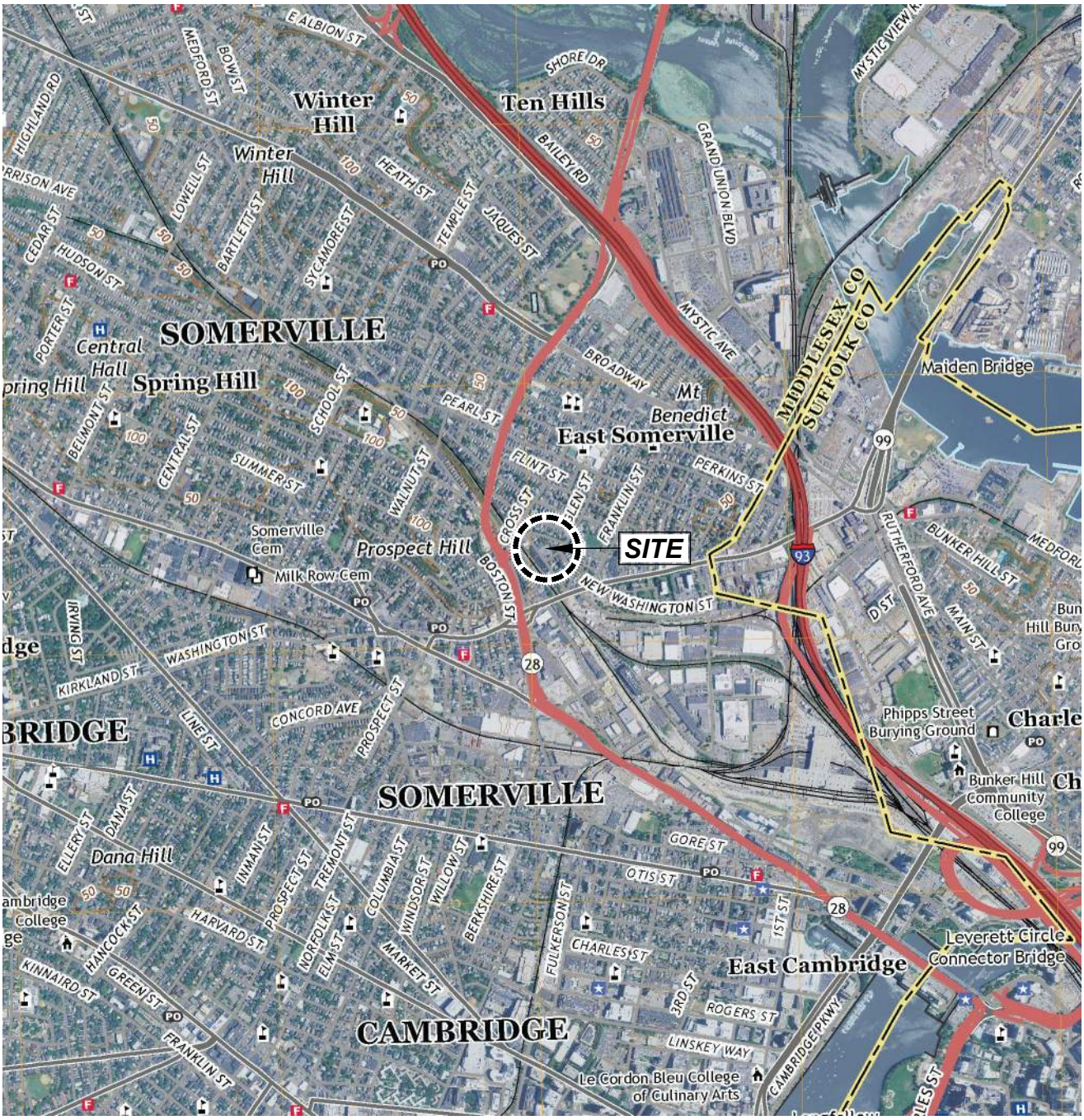
GEI (2024). Release Abatement Measure Plan, 121 Washington Street portion of 50 Tufts Street, Somerville, MA, RTN 3-23246, dated February 28, 2024.

# Figures

**Figure 1. Site Location Map**

**Figure 2. 121 Washington Street Site**

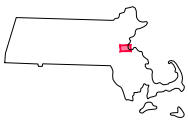
**Figure 3. 121 Washington Street First Floor and Sub-Slab Components**




0 1000 2000 4000 6000

SCALE, FEET

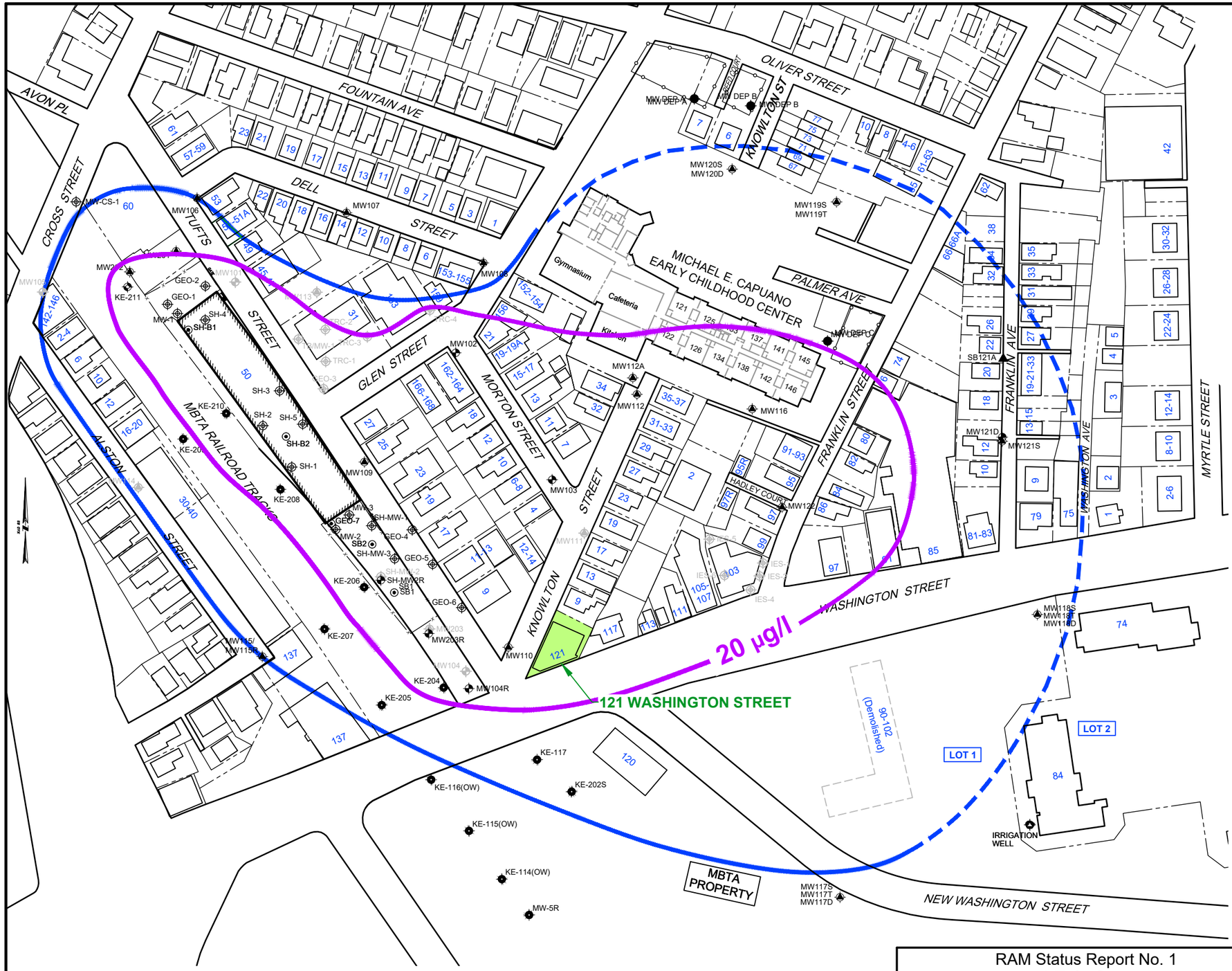
This Image is from U.S.G.S. Topographic 7.5 Minute Series
Boston North, MA Quadrangle, 2018.
Datum is North American Vertical Datum of 1988 (NAVD88).
Contour Interval is 10 Feet.



MASSACHUSETTS
QUADRANGLE LOCATION

| | | |
|---|---|---|
| RAM Status Report No. 1<br>50 Tufts Street<br>Somerville, Massachusetts | GEI Consultants | SITE LOCATION MAP |
| Wooden Teeth LLC<br>Wilmington, Massachusetts | Project 045163 | July 2024 Fig. 1 |

B:\Private\04516\#Drafting\04516-3\RAM SR\045163 RAM slm




## LEGEND:

- MONITORING WELL INSTALLED BY TRC, 2014
- SOIL GAS SAMPLING POINT BY TRC, 2014
- MONITORING WELL WITH SOIL VAPOR SAMPLE PORT INSTALLED BY GEI, JANUARY 2007 - JANUARY 2008
- MONITORING WELL BY KLEINFELDER, SEPTEMBER 2012, MARCH 2014, AND APRIL 2014
- MONITORING WELL INSTALLED BY SANBORN HEAD ASSOCIATES, 2002
- MONITORING WELL INSTALLED BY GEOINSIGHT, JUNE 2004
- SOIL BORING ADVANCED BY GEOINSIGHT, AUGUST 2004
- MONITORING WELL INSTALLED BY GEI, MAY 2006
- DRIVEN POINT MONITORING WELL INSTALLED BY MADEP, MAY 2007
- MONITORING WELL INSTALLED PREVIOUSLY, DATE UNKNOWN
- PREVIOUSLY INSTALLED IRRIGATION WELL
- 84 STREET ADDRESS
- MBTA = MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
- DISPOSAL SITE BOUNDARY (DASHED WHERE INFERRED)
- EXTENT OF PCE CONCENTRATION IN SHALLOW GROUNDWATER GREATER THAN OR EQUAL TO 20 µg/l
- µg/l = MICROGRAMS PER LITER
- PORTION OF SITE SUBJECT TO THE RAM

## GENERAL NOTES:

1. HORIZONTAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983.
2. STREET AND PROPERTY LINES BASED ON SOMERVILLE ASSESSORS' MAPS AND ARE BEST FIT RELATIVE TO THE LOCATION OF THE 50 TUFTS ST. BUILDING.
3. MONITORING WELL LOCATIONS WERE ESTABLISHED BASED ON THE GROUND SURVEYS BY BSC GROUP, INC.
4. GEI OBSERVED ABANDONMENT OF SH-MW1 AND SH-1 THROUGH SH-5 IN 2007.

RAM Status Report No. 1
50 Tufts Street
Somerville, Massachusetts

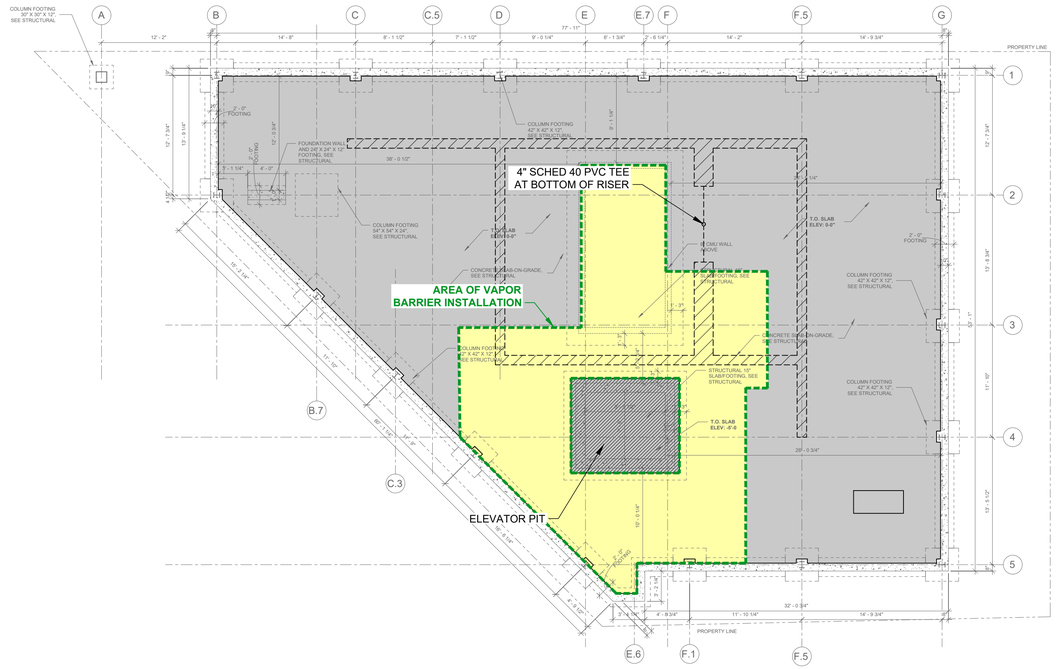
Wooden Teeth LLC
Wilmington, Massachusetts

GEI Consultants

Project 045163 | July 2024 | Fig. 2

121 Washington Street
Portion of Disposal Site
Subject to RAM

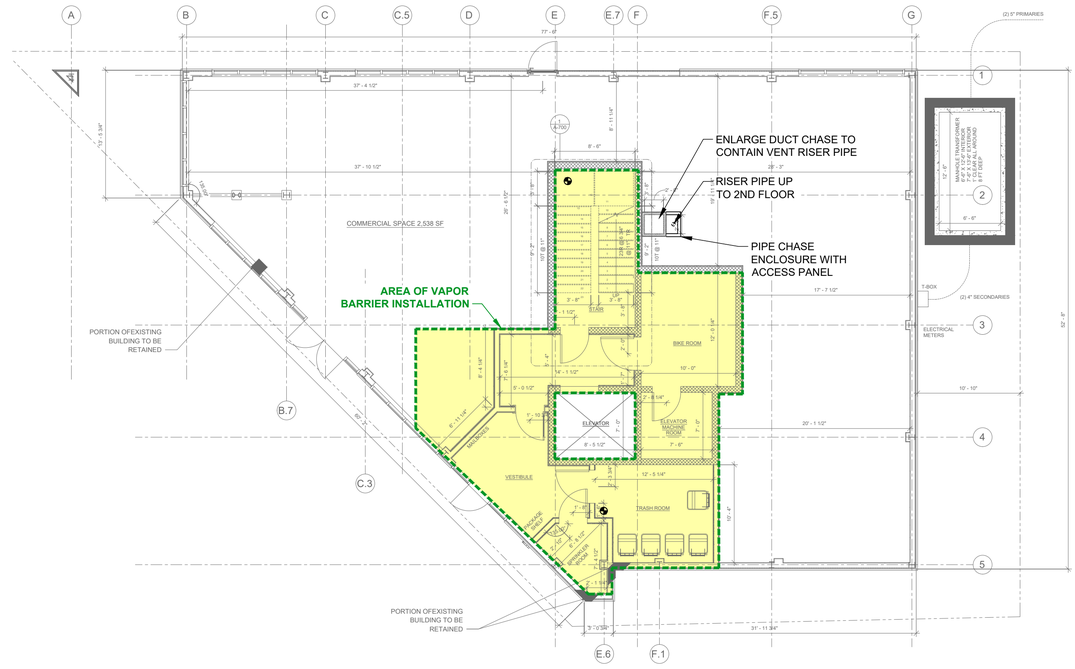
B:\Private\04516\#Drafting\04516-3\RAM SR\0451603 RAM 121 Washington St




SUB-SLAB PIPING PLAN

0 8 16

SCALE: 1/8" = 1'-0"




1ST FLOOR PIPING PLAN

0 8 16

SCALE: 1/8" = 1'-0"

SOURCE:
PLAN BASED ON DRAWING SET: "PROJECT: WASHINGTON STREET RESIDENCES""
PREPARED BY KAHLSA DESIGN, DATED 9/21/2020.

***LEGEND:***

- GAS BARRIER OR WATERPROOFING PRODUCT SUBSTITUTION APPROVED BY ENGINEER
- 4" PERFORATED SCH 40 PVC (UNDER SLAB)
- 4" SOLID RISER PIPE SCH 40 PVC (TO ROOF)
- LOW-PROFILE VENT STRIP (12" WIDE X 1.0" THICK) (SUB-SLAB)
- EXTENT OF GAS BARRIER MEMBRANE BELOW SLAB (APPROX. 3,172 SQ. FT.)
- SUB-SLAB MONITORING POINT (THROUGH SLAB)

| | | |
|---|---|---|
| RAM Status Report No. 1<br>50 Tufts Street<br>Somerville, Massachusetts | GEI Consultants | 121 WASHINGTON STREET<br>FIRST FLOOR AND<br>SUB-SLAB COMPONENTS |
| Wooden Teeth LLC<br>Wilmington, Massachusetts | Project 045163 | July 2024 Fig. 3 |

CLINGEN, PAUL B:\Private\04516\#Drafting\04516-3\RAM SR\045163-Vapor Mitigation - 121 Washington St.dwg - 7/9/2024

# Appendix A BWSC Forms

**Massachusetts Department of Environmental Protection**
*Bureau of Waste Site Cleanup*

**BWSC 106** 12

Release Tracking Number
3 - 23246

# RELEASE ABATEMENT MEASURE (RAM) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

## A. SITE LOCATION:

1. Site Name/Location Aid: 50 TUFTS ST & PROP ACROSS THE ST
2. Street Address: 50 TUFTS ST
3. City/Town: SOMERVILLE 4. Zip Code: 021454129

☑ 5. Check here if the disposal site that is the source of the release is Tier Classified. Check the current Tier Classification Category.

☐ a. Tier I ☐ b. Tier ID ☑ c. Tier II

## B. THIS FORM IS BEING USED TO: (check all that apply)

1. List Submittal Date of Initial RAM Plan (if previously submitted): 3/12/2024 (mm/dd/yyyy)

☐ 2. Submit an **Initial Release Abatement Measure (RAM) Plan**.

☐ a. Check here if the RAM is being conducted as part of the construction of a permanent structure. If checked, you must specify what type of permanent structure is to be erected in or in the immediate vicinity of the area where the RAM is to be conducted.

b. Specify type of permanent structure: (check all that apply) ☐ i. School ☐ ii. Residential ☐ iii. Commercial

☐ iv. Industrial ☐ Other Specify: _____

☐ 3. Submit a **Modified RAM Plan** for previously submitted RAM Plan.

☑ 4. Submit a **RAM Status Report**.

☐ 5. Submit a **Remedial Monitoring Report**. (This report can only be submitted through eDEP, concurrent with a RAM Status Report.)

a. Type of Report: (check one) ☐ i. Initial Report ☐ ii. Interim Report ☐ iii. Final Report

b. Frequency of Submittal:

☐ i. A Remedial Monitoring Report(s) submitted every six months, concurrent with a RAM Status Report.
☐ ii. A Remedial Monitoring Report(s) submitted annually, concurrent with a RAM Status Report.

c. Number of Remedial Systems and/or Monitoring Programs: _____

A separate BWSC106A, RAM Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

☐ 6. Submit a **RAM Completion Statement**.

☐ 7. Submit a **Revised RAM Completion Statement**.

8. Provide Additional RTNs:

☐ a. Check here if this RAM Submittal covers additional Release Tracking Numbers (RTNs). RTNs that have been previously linked to a Primary Tier Classified RTN do not need to be listed here. This section is intended to allow a RAM to cover more than one unclassified RTN and not show permanent linkage to a Primary Tier Classified RTN.

b. Provide the additional Release Tracking Number(s) covered by this RAM Submittal. ☐ - ☐ ☐ - ☐

☐ 9. Include in the **RAM Plan** or **Modified RAM Plan** a **Plan for the Application of Remedial Additives** near a sensitive receptor, pursuant to 310 CMR 40.0046(3).

**(All sections of this transmittal form must be filled out unless otherwise noted above)**

DRAFT COPY

## C. RELEASE OR THREAT OF RELEASE CONDITIONS THAT WARRANT RAM:

1. Media Impacted and Receptors Affected: (check all that apply)

☐ a. Paved Surface ☐ b. Basement ☐ c. School
☐ d. Public Water Supply ☐ e. Surface Water ☐ f. Zone 2 ☐ g. Private Well ☑ h. Residence ☐ i. Soil
☑ j. Ground Water ☐ k. Sediments ☐ l. Wetland ☐ m. Storm Drain ☑ n. Indoor Air ☐ o. Air
☐ p. Soil Gas ☑ q. Sub-Slab Soil Gas ☐ r. Critical Exposure Pathway ☐ s. NAPL ☐ t. Unknown
☐ u. Others Specify: _____

2. Sources of the Release or TOR: (check all that apply)

☐ a. Transformer ☐ b. Fuel Tank ☑ c. Pipe
☐ d. OHM Delivery ☐ e. AST ☑ f. Drums ☐ g. Tanker Truck ☑ h. Hose ☐ i. Line
☐ j. UST Describe: _____ ☐ k. Vehicle ☐ l. Boat/Vessel
☐ m. Unknown ☐ n. Other: _____

3. Type of Release or TOR: (check all that apply)

☐ a. Dumping ☐ b. Fire ☐ c. AST Removal ☐ d. Overfill
☐ e. Rupture ☐ f. Vehicle Accident ☐ g. Leak ☑ h. Spill ☐ i. Test Failure ☐ j. TOR Only
☐ k. UST Removal Describe: _____
☐ l. Unknown ☐ m. Other: _____

4. Identify Oils and Hazardous Materials Released: (check all that apply)

☐ a. Oils ☑ b. Chlorinated Solvents
☐ c. Heavy Metals ☐ d. Others Specify:

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## D. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply, for volumes list cumulative amounts)

☐ 1. Assessment and/or Monitoring Only ☐ 2. Temporary Covers or Caps
☐ 3. Deployment of Absorbent or Containment Materials ☐ 4. Temporary Water Supplies
☐ 5. Structure Venting System/HVAC Modification System ☐ 6. Temporary Evacuation or Relocation of Residents
☐ 7. Product or NAPL Recovery ☐ 8. Fencing and Sign Posting
☐ 9. Groundwater Treatment Systems ☐ 10. Soil Vapor Extraction
☐ 11. Remedial Additives ☐ 12. Air Sparging
☐ 13. Active Exposure Pathway Mitigation System ☑ 14. Passive Exposure Pathway Mitigation System
☐ 15. Monitored Natural Attenuation ☐ 16. In-Situ Chemical Oxidation

**D. DESCRIPTION OF RESPONSE ACTIONS (cont.):** (check all that apply, for volumes list cumulative amounts)

☐ 17. Excavation of Contaminated Soils

☐ a. Re-use, Recycling or Treatment ☐ i. On Site Estimated volume in cubic yards _____

☐ ii. Off Site Estimated volume in cubic yards _____

iia. Receiving Facility: _____ Town: _____ State: ____

iib. Receiving Facility: _____ Town: _____ State: ____

iii. Describe:

☐ b. Store ☐ i. On Site Estimated volume in cubic yards _____

☐ ii. Off Site Estimated volume in cubic yards _____

iia. Receiving Facility: _____ Town: _____ State: ____

iib. Receiving Facility: _____ Town: _____ State: ____

☐ c. Landfill ☐ i. Cover Estimated volume in cubic yards _____

Receiving Facility: _____ Town: _____ State: ____

☐ ii. Disposal Estimated volume in cubic yards _____

Receiving Facility: _____ Town: _____ State: ____

☐ 18. Removal of Drums, Tanks or Containers:

a. Describe Quantity and Amount:

b. Receiving Facility: _____ Town: _____ State: ____

c. Receiving Facility: _____ Town: _____ State: ____

☐ 19. Removal of Other Contaminated Media:

a. Specify Type and Volume:

b. Receiving Facility: _____ Town: _____ State: ____

c. Receiving Facility: _____ Town: _____ State: ____

☐ 20. Other Response Actions:

Describe:

☐ 21. Use of Innovative Technologies:

Describe:

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## E. LSP SIGNATURE AND STAMP :

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> if Section B of this form indicates that a **Release Abatement Measure Plan** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that a **Release Abatement Measure Status Report** and/or **Remedial Monitoring Report** is being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply (ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that a **Release Abatement Measure Completion Statement** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal:

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate, or materially incomplete.

DRAFT COPY

1. LSP #: 9719
2. First Name: ILEEN S
3. Last Name: GLADSTONE
4. Telephone: 7817214012
5. Ext.:
6. Email: igladstone@geiconsultants.com
7. Signature:
8. Date: (mm/dd/yyyy)
9. LSP Stamp:

# RELEASE ABATEMENT MEASURE (RAM) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

## F. PERSON UNDERTAKING RAM:

1. Check all that apply: ☐ a. change in contact name ☐ b. change of address ☑ c. change in the person undertaking response actions

2. Name of Organization: WOODEN TEETH LLC

3. Contact First Name: KEITH 4. Last Name: GLOVER

5. Street: 17 VILLAGE STREET, UNIT 1 6. Title:

7. City/Town: SOMERVILLE 8. State: MA 9. ZIP Code: 021430000

10. Telephone: 6174135525 11. Ext.: 61741 12. Email:

## G. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON UNDERTAKING RAM:

☑ Check here to change relationship

☑ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☑ e. Other RP or PRP Specify: ELIGEBLE PERSON

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4. Any Other Person Undertaking RAM Specify Relationship:

## H. REQUIRED ATTACHMENTS AND SUBMITTALS:

DRAFT COPY

☐ 1. Check here if any Remediation Waste, generated as a result of this RAM, will be stored, treated, managed, recycled or reused at the site following submission of the Response Action Completion Statement. You must submit a Phase IV Remedy Implementation Plan along with the appropriate transmittal form (BWSC 108).

☐ 2. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

☐ 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the implementation of a Release Abatement Measure.

☐ 4. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to bwsc.edep@state.ma.us.

☐ 5. If a RAM Compliance Fee is required for this RAM, check here to certify that a RAM Compliance Fee was submitted to DEP, P. O. Box 4062, Boston, MA 02211.

☑ 6. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

# RELEASE ABATEMENT MEASURE (RAM) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0444 - 0446 (Subpart D)

## I. CERTIFICATION OF PERSON UNDERTAKING RAM:

1. I,_____ , attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: _____ 3. Title: _____

(Signature)

4. For: WOODEN TEETH LLC 5. Date: _____

(Name of person or entity recorded in Section F) (mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section F.

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. ZIP Code: _____

11. Telephone: _____ 12. Ext.: _____ 13. Email: _____

**YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO $10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE**

Date Stamp (DEP USE ONLY)

DRAFT COPY

# Appendix B Photo Log

121 Washington Street
Somerville, Massachusetts
Sub-slab Vapor Mitigation System Installation Observations – Photo Log
February to April, 2024

**February 29, 2024**

*Vapor Mitigation System Piping Observations*

Photo 1. Vented piping above utility piping in south corner

Photo 2. View toward residential area

Photo 3. Riser pipe incorrectly located inside bike room

Photo 4. Central piping, standing in bike room

Photo 5. System piping opposite Bike room wall (where riser pipe should have been)

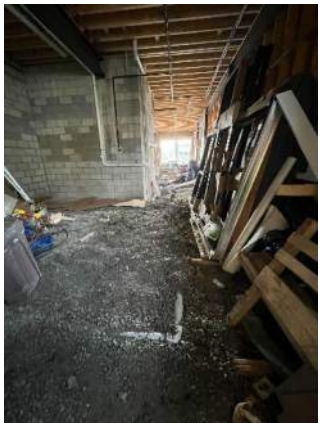

Photo 6. North corner of piping, looking south (stairwell wall in view)

Photo 7. North corner of piping, looking east

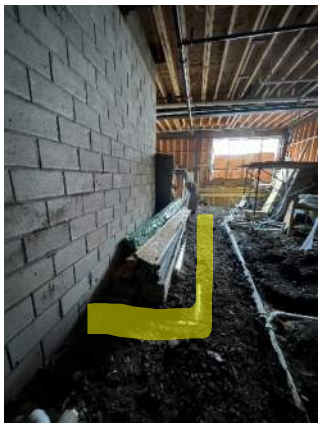

Photo 8. East corner of piping (highlighted) elbow instead of a Tee. Bike room wall on left.

Photo 9. Southwest section of building; could not observe system piping (buried).

**March 22, 2024**

*Vapor Mitigation System Piping Observations*

Photo 1. Riser pipe still inside bike boom

Photo 2. South piping, into residential area

Photo 3. Confirmed buried piping in southeast (highlighted), looking north

Photo 4. Vent piping buried (utility piping in view)

Photo 5. North corner of piping, looking south

Photo 6. North corner of piping, looking east

Photo 7. North corner of piping, looking east

Photo 8. East end of piping, still an elbow instead of a tee.

Photo 9. South corner of piping appears to have tee and pipe extension (highlighted).

**April 8, 2024**

*Vapor Barrier Install Observations*

Photo 1. Setting up Drago wrap

Photo 2. Stego tape; would not adhere to wall footers

**April 18, 2024**

*Vapor Barrier Install Observations*

Photo 1. South area prior to installing barrier

Photo 2. Residential area prior to installing barrier

Photo 3. Residential area prior to installing barrier

Photo 4. Stairwell prior to installing barrier

Photo 5. Stairwell prior to installing barrier

Photo 6. Bike room prior to installing barrier

Photo 7. Starting layout of Drago wrap in trash room

Photo 8. Residential entrance area.

Photo 9. Residential trash room/sprinkler room

Photo 10. Stego tape around utilities

Photo 11. Outside stairwell/elevator.

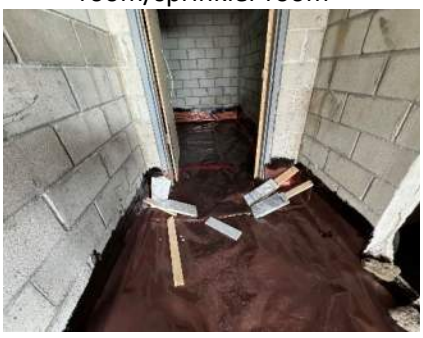

Photo 12. Residential hall area

Photo 13. Bike room, with riser pipe

Photo 14. Elevator machine room.

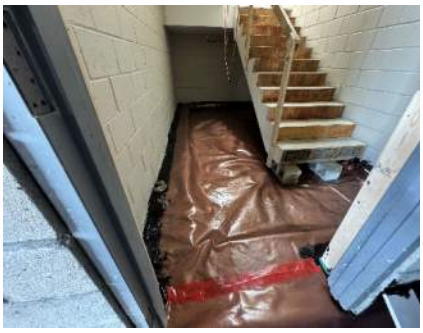

Photo 15. Stairwell

A-Z Environmental Vapor Barrier SMOKE TESTING

| DATE | TIME | LOCATION | TEST RESULTS & COMMENTS |
|---|---|---|---|
| 4/20/24 | 8:10AM | Stair Well | Leaks around doorway & stair platform (Repaired) |
| 4/20/24 | 9:25 | Bike Room | Leaks some edges of taped areas (Repaired) |
| 4/20/24 | 10:17AM | Mechanical Room | Leaks at doorway & some edges (Repaired) |
| 4/20/24 | 11:54 | Foyer | Leaks at edges, pipes & taped areas (Repaired |

Client Rep

A-Zoulias Env. Rep William Pauls

Comments: All areas that were breached were Repaired